REFERENCES

- Ackers, P., (1993), "Stage-Discharge Functions for Two-Stage Channels: The Impact of Research," Journal of the Institution of Water And Environmental Management, 7(1):52-61
- Ang, A. H-S, and Tang, W. H., (1975). <u>Probability Concepts in Engineering Planning and Design</u> (Vol 1, Basic Principles), Wiley, New York, 409 p.
- Ang, A. H-S., and Tang, W.H., (1984). <u>Probability Concepts in Engineering Planning and Design</u> (Vol II, Decision, Risk, and Reliability), Wiley, New York, 562 p.
- Arneson, L.A. and Shearman, J.O., (1998). "User's Manual for WSPRO--A Computer Model for Water Surface Profile Computations," Federal Highway Administration Report No. FHWA-SA-98-080, 323 p.
- Atabay, S., and Knight, D.W., (1999). "Stage-Discharge and Resistance Relationships for Laboratory Alluvial Channels with Overbank Flow," <u>River Sedimentation: Theory and Applications</u>
 Proceedings of the 7th International Symposium on River Sedimentation, Hong Kong, 1618 December, 1998), A.A. Balkema, pp. 223-229
- Bailey, J.H., (1924). "The Following Theoretical Formula for Solving the Equation of Discharge Curves and Determination of the Point of Zero Flow," Engineering News-Record, 92(15):625, April 10
- Bailey, J.F., and Ray, H.A., (1966). "Definition of Stage-discharge Relation in Natural Channels by Step-Backwater Analysis," <u>U.S. Geological Survey Water-Supply Paper 1869-A</u>, 34 p.
- Bakhmeteff, B.A., (1932). Hydraulics of Open Channels, McGraw-Hill, New York, NY, 329 p.
- Barrows, H.K., (1907). "Surface-Water Supply of New England, 1906," <u>Water-Supply Paper 201</u>, U.S. Geological Survey, pp. 13-23
- Barrows, H.K., (1917). "Discussion of Effect of Channel on Stream Flow, by N.C. Grover," <u>Journal</u> of the Boston Society of Civil Engineers, 4(3):130-131
- Beardsley, R.C., (1907). "Discussion On a Suggested Method for Extrapolating Values of Stream Discharge, by J.C. Stevens," Engineering News 58(8): 202-203, Aug 22
- Becker, A., Melcher, M., and Kose, G., (1982). "Up-dating of Discharge Rating Curves by Means of Methematical Models," <u>Advances in Hydrometry</u> (Proceedings of the Exeter Symposium, July 1982). ed. by J.A. Cole, International Association of Hydrological Sciences, Publication No. 134, pp. 37-48
- Beckman, E.W., and Furness, L.W., (1962). "Flow Characteristics of Elkhorn River Near Waterloo, Nebraska," <u>Water-Supply Paper 1498-B</u>, U.S. Geological Survey, 34 p.
- Blanchard, M., (1932). "A Discharge Diagram for Uniform Flow in Open Channels," <u>Transactions</u>, American Society of Civil Engineers, 96(Paper No. 1807):865-870
- Bonacci, O., (1979). "Influence of turbulence on the accuracy of discharge measurements in natural streamflows," <u>Journal of Hydrology</u>, 42(3-4): 347-367

- Bos, M.B. (ed.), (1976). <u>Discharge Measurement Structures</u>, International Institute for Land Reclamation and Improvement, Pub. 20, Wageningen, The Netherlands, 464 p.
- Boyer, M.C., (1937). "Analysis of Methods of Adjusting Stage and Discharge for Measurements During Changing Stage," <u>Water Resources Bulletin</u>, Nov 10, 1937, unpublished manuscript of the Water-Resources Branch of the U.S. Geological Survey, pp. 192-200
- Boyer, M.C., (1939). "Determining Discharge at Gaging Stations Affected by Variable Slope," <u>Civil Engineering</u>, 9(9):556-558, September
- Boyer, M.C., (1964). "Streamflow Measurement," <u>Handbook of Applied Hydrology</u>, ed. By V.T. Chow, McGraw-Hill, New York, pp. 15.1-15.41
- Brownlie, W.R., (1983). "Flow Depth in Sand-Bed Channels," <u>Journal of Hydraulic Engineering</u>, American Society of Civil Engineers, 109(7):959-990
- Burges, S.J., (1979). "Analysis of Uncertainty in Floodplain Mapping," <u>Water Resources Bulletin</u>, 15(1):227-243
- Burkham, D.E., & Dawdy, D.R., (1970). "Error Analysis of Streamflow Data for an Alluvial Stream," <u>Professional Paper 655-C</u>, U.S. Geological Survey, pp. C1-C13
- Carter, R.W., and Anderson, I.E., (1963). "Accuracy of Current Meter Measurements," <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, 89(HY4): 105-115
- Carter, R.W., and Davidian, J., (1965). "Discharge Ratings at Gauging Stations," U.S. Geological Survey <u>Techniques of Water Resources Investigations</u>, <u>Book 1</u>, <u>Chapter 12</u>, 15 p.
- Chambers, J. M., Cleveland, W. S., Kleiner, B., and Tukey, P. A., (1983). <u>Graphical Methods for Data Analysis</u>, PWS-Kent Publishing Co., Boston, 395 p.
- Chatley, H., (1919). "River Discharge,", Engineering, 108:322
- Cheng, S.T., Yen, B.C., nad Tang, W.H., (1982). <u>Overtopping Risk for and Exisiting Dam</u>, Hydraulic Engineering Series, No. 37, Dept. of Civil Engineering, University of Illinois at Urbana-Champaign, 195 p.
- Chiu, C.-L., and Said, C.A.A, (1995). "Maximum and Mean Velocities and Entropy in Open-Channel Flow," <u>Journal of Hydraulic Engineering</u>, American Society of Civil Engineers, 121(1):26-35
- Chow, V.T., (1955). "Integrating the Equation of Gradually-varied Flow," <u>Proceedings</u>, American Society of Civil Engineers, Paper No. 838, 81:1-32
- Chow, V.T., (1957)., Closure to: "Integrating the Equation of Gradually-varied Flow," <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, Paper 1177, 83(HY1): 9-22
- Chow, V.T., (1959). Open Channel Hydraulics, McGraw-Hill, New York, NY, 680 p.
- Clemmens, A.J., Wahl, T.L., Bos, M.G., and Replogle, J.A., (2001). <u>Water Measurement with Flumes and Weirs</u>, International Institute for Land Reclamation and Improvement, Pub. 58, Wageningen, The Netherlands, 382 p.

- Cleveland, W.S., (1979). "Robust Locally Weighted Regression and Smoothing Scatterplots," <u>Journal of the American Stat. Asso</u>c. 74:829-836.
- Colby, B.R., (1960). "Discontinuous Rating Curves for Pigeon Roost and Cuffawa Creeks in Northern Mississippi:" <u>Agricultural Research Report 41-36</u>, U.S. Dept of Agriculture, 31 p.
- Corbett, D.M., et al., (1943). "Stream-Gaging Procedure: A Manual describing methods and practices of the U.S. Geological Survey," <u>Water-Supply Paper 888</u>, U.S. Geological Survey, 245 p.
- Cunge, J.A., Holly, F.M., Jr., and Verwey, A., (1986). <u>Practical Aspects of Computational River Hydraulics</u> (Reprint published by Iowa Institute of Hydraulic Research, orig. by, Pitman Advanced Publishing, Monographs and Surveys in Water-Resources Engineering, 1980), 420 p.
- Davenport, R.W., (1943). "Discussion of Early Contributions to Mississippi River Hydrology, by C.S. Jarvis," <u>Transactions</u>, American Society of Civil Engineers, 108(Paper No. 2190):629-633
- Dawdy, D.R., (1961). "Depth-Discharge Relations of Alluvial Streams--Discontinuous Rating Curves," <u>Water-Supply Paper 1498-C</u>, U.S. Geological Survey, 16 p.
- Dawdy, D.R., Lucas, W., and Wang, W.C., (2000). "Physical Basis of Stage-Discharge Ratings," Stochastic Hydraulics 2000 (Proceedings of the Eight International Symposium on Stochastic Hydraulics, Beijing, China, 25-28 July, 2000), A.A. Balkema, Rotterdam, pp. 561-564
- DeGagne, M.P.J., Douglas, G.G., Hudson, H.R., Simonovic, S.P., (1996). "A decision support system for the analysis and use of stage-discharge rating curves," <u>Journal of Hydrology</u>. 184(3-4):225-241
- Dickenson, W.T., (1967). "Accuracy of Discharge Determinations," <u>Hydrology Papers</u>, No. 20, Department of Civil Engineering, Colorado State University, 54 p.
- Doyle, W.H., Shearman, J.O., Stiltner, G.J., and Krug, W.R., (1983). "A Digital Model for Streamflow Routing by Convolution Methods," United States Geological Survey Water-Resources Investigations Report 83-4160, 130 p.
- Dymond, J.R.; Christian, R., (1982). "Accuracy of Discharge Determined from a Rating Curve," <u>Hydrological Sciences Journal</u>, 27(4): 493-504
- Eisenlohr, W.S., (1964). "Discharge ratings for streams at submerged section controls," in:

 <u>Contributions to the Hydrology of the United States, 1963</u> (Water-supply Paper 1779-L),
 U.S. Geological Survey, 32 p.
- Ellet, C.M., Jr., (1853). <u>The Mississippi and Ohio Rivers</u>, Lippencott, Grambo, and Co., Philadelphia, Penn., 367 p.
- Ervine, D.A., and Baird, J.I., (1982). "Rating Curves for Rivers with Overbank Flows," <u>Proceedings</u>, Part 2, Inst. Civil Engineers, 83:465-472

- Espey, W.H., Schmidt, A.R., and Barkau, R.L., (2001), <u>Lake Michigan Diversion—Findings of the Fourth Technical Committee for Review of Diversion Flow Measurements and Accounting Procedures</u>: U.S. Army Corps of Engineers, Chicago District, May 2001, 102 p.
- Follansbee, R., (1994). <u>A History of the Water Resources Branch, U.S. Geological Survey</u> (Volume I, From Predecessor Surveys to June 30, 1919), U.S. Geological Survey, 286 p.
- Franz, D.D., and Melching, C.S., (1997). "Full Equations Utilities (FEQUTL) Model for the Approximation of Hydraulic Characteristics of Open Channels and Control Structures During Unsteady Flow," <u>Water-Resources Investigations Report 97-4037</u>, U.S. Geological Survey, 205 p.
- Fread, D.L., (1975). "Computation of Stage-Discharge Relationships Affected by Unsteady Flow," Water Resources Bulletin, 11(2):213-228
- Fread, D.L., (1982). "A Dynamic Model of Stage-Discharge Relations Affected by Changing Discharge," NOAA Technical Memorandum NWS HYDRO-16, National Weather Service, Silver Spring, MD, 54 p.
- Freeman, W.B., and Bolster, R.H., (1910). "Surface-Water Supply in the United States, 1907-08. Part 9, Colorado River Basin," Water-Supply Paper No. 249, U.S. Geological Survey, pp. 25-26
- Freeman, G.E., Copeland, R.R., and Cowan, M.A., (1995). "Quantifying Stage Discharge Uncertainty at Gaging Stations," <u>Water Resources Engineering</u> (Proceedings of the First International Conference, Vol 2), ed. By W.H. Espey and P.G. Combs, American Society of Civil Engineers Water Resources Engineering Division, 1779-1783
- Freeman, G.E., Copeland, R.R., and Cowan, M.A., (1996). "Uncertainty in Stage-discharge Relationships," in: <u>Stochastic Hydraulics</u>, '96 (Proceedings 7th IAHR Symposium on Stochastic Hydraulics), International Association for Hydraulic Research, pp. 601-608
- Freeman, W.B., Lamb, W.A., and Bolster, R.H., (1910). "Surface-Water Supply in the United States, 1907-08. Part 7, Lower Mississippi Basin," <u>Water-Supply Paper No. 247</u>, U.S. Geological Survey, pp. 22-24
- Frigge, M., Hoaglin, D. C., and Iglewicz, B., (1989). "Some Implementations of the Boxplot," American Statistician, 43, pp. 50-54.
- Garen, D.C., and Burges, S.J., (1981). "Approximate Error Bounds for Simulated Hydrographs,"

 <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, 107(HY11):15191534
- Gessler, D., Gessler, J., and Watson, C.C., (1998). "Prediction of Discontinuity in Stage-Discharge Rating Curves," <u>Journal of Hydraulic Engineering</u>, American Society of Civil Engineers, 124(3):243-252
- Gilcrest, B.R., (1950). "Flood Routing," in: <u>Engineering Hydraulics</u> (Proceedings of the Fourth Hydraulics Conference, Iowa Institute of Hydraulic Research, June 12-15, 1949), edited by H. Rouse, John Wiley and Sons, Inc., New York, pp. 635-710

- Gonzalez-Castro, J.A., (2000). <u>Applicability of Hydraulic Performance Graph for Unsteady Flow</u> Routing, Ph.D. Thesis, Department of Civil Engineering, University of Illinois, 147 p.
- Gonzalez-Castro, J.A., and Yen, B.C., (2000). <u>Applicability of Hydraulic Performance Graph for Unsteady Flow Routing</u>, Civil Engineering Studies, Hydraulic Engineering Series, No. 64, Univ. of Illinois at Urbana-Champaign, 199 p.
- Graf, W.H., (1984), <u>Hydraulics of Sediment Transport</u>, Water Resources Publications, Littleton, Colo., 513 p.
- Grover, N.C., (1916). "Effect of Channel on Stream Flow," <u>Journal of the Boston Society of Civil</u> Engineers, 3(9):465-476
- Grummann, H.R., (1935). "Construction of Rating Cruves for Rivers," <u>The Military Engineer</u>, 27(155):378-383
- Haldar, A., and Mahadevan, S., (2000). <u>Probability, Reliability, and Statistical Methods in Engineering Design</u>, John Wiley and Sons, New York, 304 p.
- Hale, R.A., (1917). "Discussion of Effect of Channel on Stream Flow, by N.C. Grover," <u>Journal of the Boston Society of Civil Engineers</u>, 4(3):128-129
- Hall, L.S., (1932). "Discussion of A Discharge Diagram for Uniform Flow in Open Channels, by M. Blanchard," <u>Transactions</u>, American Society of Civil Engineers, 96(Paper No. 1807):879-880
- Hall, M.R., Hall, W.E., and Pierce, C.H., (1915). "A Method of Determining the Daily Discharge of Rivers of Variable Slope," in: <u>Contributions to the Hydrology of the United States</u>, 1914, (U.S. Geological Survey Water-Supply Paper 345), by N.C. Grover, pp. 53-65
- Hanna, F.W., (1905). "River Discharge, Mean Velocity, and Cross-sectional Area Curves," Engineering News, 53(12):302, Mar 23
- Harr, M.E., (1987). <u>Reliability-based Design in Civil Engineering</u>, Dover Publications, Mineola, New York, 291 p.
- Harr, M.E., (1989). "Probability Estimate for Multivariate Analysis," Applied Mathematical Modeling, 13(5):313-318
- Helsel, D. R. and Hirsch, R.M., (2002). "Statistical Methods in Water Resources," U.S. Geological Survey <u>Techniques of Water Resources Investigations</u>, <u>Book 4</u>, <u>Chapter A3</u>, 510 p.
- Henderson, F.M., (1963). "Flood Waves in Prismatic Channels," <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, 89(HY4):39-67
- Henderson, F.M., (1966). Open Channel Flow, Macmillan Publishing Co., Inc., New York, NY, 522 p.
- Herschy, R.W., (1969), "The Evaluation of Errors at Flow Measurement Stations," <u>Technical Note 1</u>1, Water Resources Board, Reading, UK, pp. 1-31

- Herschy, R.W., (1970). "The Evaluation of Errors at Flow Measurement Stations," <u>International Symposium on Hydrometry</u>, Koblenz, International Assoc. of Hydrological Sciences, Publication No. 99, pp. 109-131
- Herschy, R.W., (1975). <u>The Accuracy of Existing and New Methods of River Gauging</u>, Ph.D. Thesis, Department of Geography, University of Reading, Reading, Berkshire, England, 485 p.
- Herschy, R.W., (1995). <u>Streamflow measurement</u>, Second Edition, E & FN Spon, London, UK, 524 p.
- Herschy, R.W., (1999). <u>Hydrometry: Principles and Practice</u>, 2nd Edition, John Wiley and Sons, New York, NY, 376 p.
- Holtschlag, D.J., (1981). "Flow Model of Saginaw River near Saginaw, Michigan," <u>United States Geological Survey Open-File Report 81-1051</u>, 20 p.
- Horton, R.E., (1907). "Discussion On a Suggested Method for Extrapolating Values of Stream Discharge, by J.C. Stevens," <u>Engineering News</u>, 58(8):202-203, Aug 22
- Hoyt, J.C., (1904). "Methods of Estimating Stream Flow," Engineering News, 52(5):104-105, Aug. 4
- Hoyt, J. C. and Grover, N.C., (1912). <u>River Discharge</u>, <u>Prepared for the Use of Engineers and Students</u>, John Wiley and Sons, New York, 173 p.
- Hulsing, H., Smith, W., and Cobb, E.D., (1966). "Velocity-Head Coefficients in Open Channels," U.S. Geological Survey Water-Supply Paper No. 1869-C, U.S. Geological Survey, 45 p
- Humphreys, A.A., and Abbot, H.L., (1861). "Report upon the Physics and Hydraulics of the Mississippi River," <u>Professional papers of the Corps of Engineers (U. S. Army)</u>; No. 13.
- Ionides, M.G., (1934). "River Stage-Discharge Curves," Engineering, 138(3587):396, Oct. 12, 1934
- International Organization for Standardization, (1983a). "Liquid Flow Measurement in Open Channels- Part 1: Establishment and Operation of a Gauging Station," ISO Standard 1100/1-1981, from: Measurement of Liquid Flow in Open Channels--ISO Standards Handbook 16, International Organization for Standardization, Geneve, Switzerland, pp. 133-153
- International Organization for Standardization, (1983b). "Liquid Flow Measurement in Open Channels- Part 2: Determination of the Stage-discharge Relationship," ISO Standard 1100/2-1982, from: Measurement of Liquid Flow in Open Channels--ISO Standards Handbook 16, International Organization for Standardization, Geneve, Switzerland, pp. 154-186
- Jacob, C.C., (1920). "Differential method for Drawing Stream Rating Curves," <u>Engineering News</u> <u>Record</u>, 85(14):666, Sep 30
- Jeffcoat, H.H., and Jennings, M.E., (1987). "Computation of Unsteady Flows in the Alabama River," Water Resources Bulletin, American Water Resources Association, 23(2):313-315

- Jones, B.E., (1916). "A Method of Correcting River Discharge for a Changing Stage," <u>Water Supply</u> Paper 375, U.S. Geological Survey, pp. 117-130
- Jones, B.E, (1932). "Discussion of A Discharge Diagram for Uniform Flow in Open Channels, by M. Blanchard," <u>Transactions</u>, American Society of Civil Engineers, 96(Paper No. 1807):876-878
- Kennedy, E.J., (1984). "Discharge ratings at gaging stations," <u>Techniques of Water-Resources Investigations Book 3, Chapter A 10</u>, U.S. Geological Survey, 58 p.
- King, H.W., (1939). <u>Handbook of Hydraulics for the Solution of Hydraulics Problems</u>, New York, 617 p.
- Kirpich, P.Z., (1948). "Dimensionless Constants for Hydraulic Elements of Open-Channel Cross Sections," <u>Civil Engineering</u>, 18(10):47
- Kitanidis, P.-K.; Lara-O., G.; Lane, R.W., (1984). "Effects of Visitation Frequency and Instrument Reliability on the Accuracy of Estimation of River Discharges," <u>Hydrological Sciences Journal</u>, IAHS, 29(3):235-269
- Kolupaila, S., (1960). "Early History of Hydrometry in the United States," <u>Journal of the Hydraulics</u>
 <u>Division</u>, American Society of Civil Engineers, 86(HY1):1-51
- Kolupaila, S., (1961). Bibliography of Hydrometry, University of Notre Dame Press, 975 p.
- Kulin, G., and Compton, P.R., (1975). A Guide to Methods and Standards for the Measurement of Water Flow, U.S. Dept. of Commerce, National Bureau of Standards, Spec. Publ. 421, 97 p.
- Laenen, A., (1985). "Acoustic Velocity Meter Systems," <u>Techniques of Water-Resources Investigations, Book 3, Chapter A17</u>, U.S. Geological Survey, 38 p.
- Laenen-, A., Curtis, R.E. Jr., (1989). "Accuracy of Acoustic Velocity Metering Systems for Measurement of Low Velocity in Open Channels," <u>U.S. Geological Survey Water-Resources Investigations Report 89-4090</u>, 15p.
- Lansford, W.M., and Mitchell, W.D., (1949). <u>An Investigation of the Backwater Profile for Steady</u>
 <u>Flow in Prismatic Channels</u>, University of Illinois Engineering Experiment Station Bulletin Series 381, 94 p.
- Lee, H.-L., and Mays, L.W., (1984). "Hydraulic Uncertainties in Flood Levee Capacity," <u>Journal of Hydraulic Engineering</u>, American Society of Civil Engineers, 112(10):928-934
- Lee, M. Babbitt, H.E., and Baumann, E.R., (1952). <u>Gradually Varied Flow in Uniform Channels on Mild Slopes</u>, University of Illinois Engineering Experiment Station Bulletin Series 404, 90 p.
- Lesher, M. and Foley, P., (1997), "Risk-Based Analysis for Evaluation of Alternatives Grand Forks North Dakota and Crookston, Minnesota," in <u>Proceedings of a Workshop on Risk-Based Analysis for Flood Damage Reduction Studies</u>, U.S. Army Corps of Engineers, Hydrologic Engineering Center, pp. 51-66.

- Lewis, D.D., (1939). "Practical Methods of Determining Discharge for Gaging Stations on Streams Where the Slope is Affected by Variable Discharge," <u>Water Resources Bulletin</u>, Nov 10, 1939, unpublished manuscript of the Water-Resources Branch of the U.S. Geological Survey, pp. 487-489
- Li, K.S., (1992). "Point estimate Method for Calculating Statistical Moments," <u>Journal of</u> Engineering Mechanics, American Society of Civil Engineers, 118(7):1506-1511
- Liddell, W.A., (1927). <u>Stream Gaging</u>, First Edition, McGraw-Hill Book Company, New York, 238 p.
- Lighthill, M.J., and Whitham, G.B., (1955), "On Kinematic Waves: I. Flood Movement in Long Rivers," Proc. Royal Soc., Royal Society, London, 229(Ser. A):281-316Limerinos, J.T., (1970), "Determination of the Manning Coefficient from Measured Bed Roughness in Natural Channels," <u>U.S. Geological Survey Water-Supply Paper 1898-B</u>, U.S. Geological Survey, 47 p.
- Linsley, R.K., Kohler, M.A., & Paulhus, J.L.H., (1949). <u>Applied Hydrology</u>, First Edition, McGraw-Hill Book Company, Inc., New York, 689 p.
- Matheson, A.J., (1932). "Discussion of A Discharge Diagram for Uniform Flow in Open Channels, by M. Blanchard," <u>Transactions</u>, American Society of Civil Engineers, 96(Paper No. 1807):878-879
- McBean, E.A., and Perkins, F.E., (1975a). "Convergence Schemes in Water Profile Computation,"

 <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, 101(HY10):13801384
- McBean, E.A., and Perkins, F.E., (1975b). "Numerical Errors in Water Profile Computation," <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, 101(HY11):1389-1403
- McBean, E.A., Penel, J., and Siu, K.-L., (1984). "Uncertainty Analysis of a Delineated Floodplain," <u>Canadian Journal Of Civil Engineers</u>, Vol. 11, pp. 387-395
- McGill, R., Tukey, J.W., and Larsen, W.A., (1978). "Variations of Box Plots," <u>The American Statistician</u>. 32, pp. 12-16.
- Melching, C.S., and Oberg, K.A., (1993). "Comparison, Analysis, and Estimation of Discharge Data from Two Acoustic Velocity Meters on the Chicago Sanitary and Ship Canal at Romeoville, Illinois," U.S. Geological Survey Water Resources Investigations Report 93-4048, 61 p.
- Melching, C.S., Yen, B.C., and Wenzel, H.G., (1987). <u>Incorporation of Uncertainties in Real-time</u>

 <u>Catchment Flood Forecasting</u>, Research Report 208, Water Resources Center, University of Illinois at Urbana-Champaign, 194 p.
- Melching, C.S., Yen, B.C., and Wenzel, H.G., Jr., (1990). "A Reliability Estimation in Modeling Watershed Runoff with Uncertainties," <u>Water Resources Research</u>, American Geophysical Union, 26(10):2275-2286

- Melching, C.S., Yen, B.C., and Wenzel, H.G., Jr., (1991). "Output Reliability as Guide for Selection of Rainfall-Runoff Models," <u>Journal of Water Resources Planning and Management</u>, American Society of Civil Engineers, 117(3):383-398
- Mishra, S.K., and Seth, S.M., (1996). "Use of Hysteresis for Defining the Nature of Flood Wave Propagation in Natural Channels," <u>Hydrological Sciences Journal</u>, 41(2):153-170
- Mitchell, W.D., (1954). "Stage-Fall-Discharge Relations for Steady Flow in Prismatic Channels," Water-Supply Paper 1164, U.S. Geological Survey, 162 p.
- Mitchell, W.D., and Barron, E.G., (1946). <u>The Backwater Profile for Steady Flow in a Rectangular Channel and its Significance in the Stage-Fall-Discharge Relation</u>, MS Thesis, Department of Civil Engineering, University of Illinois at Urbana, Champaign, 126 p.
- Murphy, E.C., (1904a). "Method of Computing Daily and Monthly Discharge of Streams with Sandy, Changeable Bed," Engineering News. 51(16):379-380, Apr 21
- Murphy, E.C., (1904b). "Measurement of Flow of Streams," in: <u>Proceedings of the First Conference of Engineers of the Reclamation Service</u>, compiled by F.H. Newell, United States Geological Survey Water-Supply and Irrigation Paper No. 93, pp. 263-265
- Murphy, E.C., (1904c). "Accuracy of Stream Measurements," <u>Water-Supply and Irrigation Paper No. 95</u>, U.S. Geological Survey, 169 p.
- Murphy, E.C., (1907). "Discussion On a Suggested Method for Extrapolating Values of Stream Discharge, by J.C. Stevens," <u>Engineering News</u>, 58(8):202-203, Aug 22
- Newell, F.H., (1901). "Methods of Stream Measurements," <u>Water-Supply and Irrigation Paper No.</u> 56, U.S. Geological Survey, 51 p.
- Noble, T.A., (1899). "Gauging of Cedar River, Washington," <u>Transactions</u>, American Society of Civil Engineers, XLI(Paper No. 842):5-17
- Ott, R.L., (1992). <u>An Introduction to Statistical Methods and Data Analysis</u>," 4th edition, Wadsworth Publishing, Belmont, CA, 1183 p.
- Pelletier, P.M., (1988). "Uncertainties in the Single Determination of River Discharge: A Literature Review," Canadian Journal of Civil Engineering, Vol 15, pp. 834-850
- Pelletier, P.M., (1990). <u>Uncertainties in the Determination of River Discharge and the Determination of Their Relative Significance Using Multiobjective Analysis Techniques</u>, MS Thesis, Department of Civil Engineering, University of Manitoba, 240 p.
- Perry, L., (1932). "Discussion of a Discharge Diagram for Uniform Flow in Open Channels, by M. Blanchard," <u>Transactions</u>, American Society of Civil Engineers, 96(Paper No. 1807):871-873
- Pillsbury, L.B., (1932). "Discussion of A Discharge Diagram for Uniform Flow in Open Channels, by M. Blanchard," <u>Transactions</u>, American Society of Civil Engineers, 96(Paper No. 1807):873-875

- Pisani, D. J., (2002). "A Tale of Two Commissioners: Frederick H. Newell and Floyd Dominy," presented at <u>History of the Bureau of Reclamation: A Symposium</u>, Las Vegas, NV, {http://www.waterhistory.org/histories/newell/}
- Ponce, V.M., and Lugo, A., (2001), "Modeling Looped Ratings in Muskingum-Cunge Routing," Journal of Hydrologic Engineering, American Society of Civil Engineers, 6(2):119-124
- Posey, C.J., (1943). "Flood Wave Characteristics as Related to Flood Routing," <u>Proceedings Second Hydraulics Conference</u>, University of Iowa Studies in Engineering, Bulletin 27, pp. 224-233
- Powell, J.W., (1891). "Eleventh Annual Report of the United States Geological Survey to the Secretary of the Interior 1889-1890," <u>U.S. Geological Survey Eleventh Annual Report</u> (Part 2)
- Rantz, S.E., et al., (1982a). "Measurement and Computation of Streamflow: Volume 1. Measurement of Stage and Discharge," <u>Water-Supply Paper 2175</u>, U.S. Geological Survey, 284 p.
- Rantz, S.E., et al., (1982b). "Measurement and Computation of Streamflow: Volume 2. Computation of Discharge," <u>Water-Supply Paper 2175</u>, U.S. Geological Survey, pp. 285-631
- Remenieras, (1949). "L'hydraulique des stations Limnimetriques pour la mesure du debit des cours d'eau (Hydraulics of Gauging Stations for River Discharge Measurements)." <u>Annuaire Hydrologique de la France, Annee 1949</u>, Paris, Societe Hydrotechnique de France, 1950, pp. 9-48
- Riggs, H.C., (1985). <u>Streamflow Characteristics</u>, Title 22 in the Developments in Water Science Series, Elsevier Science Publishers, B.V., Amsterdam, The Netherlands, 249 p.
- Rosenblueth, E., (1975). "Point Estimates for Probability Moments," <u>Proceedings</u>, National Academy of Science, 72(10):3812-3814
- Rosenblueth, E., (1981). "Two-point Estimates in Probabilities," <u>Applied Mathematical Modelling</u>, 5:329-335
- Rouse, H., and Ince, S., (1957). <u>History of Hydraulics</u>, Iowa Institute of Hydraulic Research, State University of Iowa, 269 p.
- Ruhl, K.J., (1989). "Flow Determination for Ohio River at Greenup Dam and Louisville, Kentucky," in Transport Modeling, compiled by R.W. Schaffranek, United States Geological Survey Water-Resources Investigations Report 89-4061, pp. 65-66
- Rutter, E.J., Graves, Q.B., and Snyder, F.F., (1938). "Flood Routing," <u>Proceedings</u>, American Society of Civil Engineers, 64(Part I):291-310
- Savini, J., and Bodhaine, G.L., (1966). "Analysis of Current-Meter Data at Columbia River Gauging Stations, Washington and Oregon," <u>U.S. Geological Survey Water-Supply Paper No. 1869-F</u>, U.S. Geological Survey, 59 p.

- Schaffranek, R.W., Baltzer, R.A., and Goldberg, D.E., (1981). "A Model for Simulation of Flow in Singular and Interconnected Channels," <u>Techniques of Water Resources Investigations of the United States Geological Survey, Book 7, Chapter C3</u>, 110 p.
- Schmidt, A.R., and Yen, B.C., (2001)," Stage-Discharge Relationship in Open Channels," in <u>Proc.</u> 3rd Intl. Symp. on Envr. Hydr., Tempe, AZ, Dec. 5-8, 2001, ed. by D. Boyer and R. Rankin, CD-ROM.
- Schmidt, A.R., and Yen, B.C., (2002)," Stage-Discharge Ratings Revisited," in <u>Hydraulic Measurements and Experimental Methods</u>, Proceedings of the EWRI and IAHR Joint Conference, Estes Park, CO, July28-August 1, 2002, CD-ROM, in press.
- Schoder, E.W., (1912). "A Method of Plotting River Stage-Discharge Data," <u>Engineering Record</u>, 66(5):138
- Seddon, J.A., (1900). "River Hydraulics," <u>Transactions</u>, American Society of Civil Engineers, XLIII(Paper No. 871):179-229
- Sellin, R.H.J., and van Beesten, D., (2001). "Flood Channel Capacity; Seasonal Effects Caused by Vegetation Growth in the Channel and on the Berm," in Proceedings of the Third International Symposium on Environmental Hydraulics, Tempe, AZ, December 5-8, 2001, ed. by D. Boyer and R. Rankin, CD-ROM.
- Senour, C., (1943). "Discussion of Early Contributions to Mississippi River Hydrology, by C.S. Jarvis," <u>Transactions</u>, American Society of Civil Engineers, 108(Paper No. 2190):633-637
- Simons, D.B., & Richardson, E.V., (1962a). "Resistance to Flow in Alluvial Channels," <u>Transactions</u>
 American Society of Civil Engineers, 127(Part I, Paper No. 3360):927-953
- Simons, D.B., and Richardson, E.V., (1962b). "The Effect of Bed Roughness on Depth-Discharge Relations in Alluvial Channels," <u>Water-Supply Paper 1498-E</u>, U.S. Geological Survey, 26 p.
- Simons, D.B., Richardson, E.V., and Haushild, W.L., (1962). "Depth-Discharge Relations in Alluvial Channels," <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, 88(HY5):57-72
- Simons, D.B., Stevens, M.A., and Duke, J.H., Jr., (1973). "Predicting Stages on Sand-Bed Rivers,"

 <u>Journal of the Waterways, Harbors, and Coastal Engineering Division</u>, American Society of Civil Engineers, 99(WW2):231-243
- Singh,S. and Melching, C.S., (1993). "Importance of Hydraulic Model Uncertainty in Flood-Stage Estimation," <u>Hydraulic Engineering '93: proceedings of the 1993 Conference</u>: San Francisco, California, July 25-30, 1993, ed. by H. W. Shen, S.T. Su, and F. Wen, pp. 1939-1944
- Sloat, J.V., and Gain, W.S., (1995). "Application of Acoustic Velocity Meters for Gaging Discharge of Three Low-Velocity Tidal Streams in the St. Johns River Basin, Northeast, Florida," <u>U.S. Geological Survey Water-Resources Investigations Report 95-4230</u>, 26 p.

- Starling, W., (1895). "The Discharge of the Mississippi River," <u>Transactions</u>, American Society of Civil Engineers, Vol. XXXIV, Paper 765, Nov. 1895, pp. 347-492
- Stedfast, D.A., (1982). "Flow Model of the Hudson River Estuary from Albany to New Hamburg, New York," <u>United States Geological Survey Water Resources Investigations Report 81-55</u>, 69 p.
- Stevens, J.C., (1907). "A Method of Estimating Stream Discharge from a Limited Number of Gaugings," Engineering News, 58(3):52-53, Jul 18
- Stevens, J.C., (1909). "Surface-Water Supply of Nebraska," <u>Water-Supply Paper No. 230</u>, U.S. Geological Survey, 251 p.
- Steward, W.G., (1921). "Rating Stations for Large Irrigation Systems," <u>The Reclamation Record</u>, 12(7):320-323
- Stout, O.V.P, (1900). "Duty of Water in Nebraska. Gaugings of the Northe Platte River. Duty of Water Under Gothenburg Canal," USDA Office of Experiment Stations Bulletin No. 86, The Use of Water in Irrigation, U.S. Department of Agriculture, pp. 149-158
- Stout, O.V.P, (1901). "Water Supply of Nebraska," in <u>Annual Report of the U.S. Geological Survey</u> to the Secretary of the Interior, Vol. 19, Part IV, U.S. Geological Survey, Washington, GPO 1880-1901, p. 323.
- Tawfik, M., Ibrahim, A., & Fahmy, H., (1997). "Hysteresis Sensitive Neural Network for Modeling Rating Curves," <u>Journal of Computing in Civil Engineering</u>, American Society of Civil Engineers, 11(3):206-211
- Thomas, H.A., (1937). "The Hydraulics of Flood Movements in Rivers," Carnegie Institute of Technology, Engineering Bulletin, 70 p.
- Thompson, D.B. and Rogers, T.D., (1993)., "Water Surface Profile Computations—How Many Sections Do I Need?," <u>Hydraulic Engineering '93 : Proceedings of the 1993 Conference</u> : San Francisco, California, July 25-30, 1993, ed. by H. W. Shen, S.T. Su, and F. Wen, pp. 791-796
- Todd, A.M, (1900). "Discussion of River Hydraulics by J.A. Seddon," <u>Transactions</u>, American Society of Civil Engineers, XLIII(Paper No. 871):230-235
- Travis, W.I., (1983). "Example of Slope-Stage-Discharge Computations by Slope-Ratio Method,"

 <u>Water Resources Bulletin</u>, May 10, 1938, unpublished manuscript of the Water-Resources

 Branch of the U.S. Geological Survey, pp. 136-138
- Tsai, C., W.-S., (2000), <u>Shallow Water Wave Propagation in Open Channel Flow</u>, Ph.D. Thesis, Department of Civil Engineering, University of Illinois, 205 p.
- Tsai, C., W.-S., and Yen, B.C., (2001a), "Linear Analysis of Shallow Water Wave Propagation in Open Channels," <u>Jour. Engr. Mech.</u>, ASCE, 127(5):459-472
- Tsai, C., W.-S., and Yen, B.C., (2001b), "On Noninertia Wave Versus Diffusion Wave in Flood Routing," <u>Journal of Hydrology</u>, Elsevier Science, 244(2001)97-104

- Tukey, J. W., (1977). Exploratory Data Analysis, Addison-Wesley Publishing, Reading MA, 506 p.
- Tung, Y.-K., (1987). "Uncertainty of National Weather Service Rainfall Frequency Atlas," <u>Jour. Hydraulic Engineering</u>, American Society of Civil Engineers, 113(2):179-189
- Tung, Y.K., and Yen, B.C., (1993). "Some Recent Progress in Reliability Analysis for Hydraulic Designs," <u>Reliability and Uncertainty Analyses in Hydraulic Design</u>, ed. By B.C. Yen and Y. K. Tung, American Society of Civil Engineers, pp. 17-34
- U.S. Army Corps of Engineers, (1989). "Chicago Sanitary and Ship Canal at Romeoville Acoustic Velocity Meter Backup System," Chicago District, Lake Michigan Diversion Accounting Section Report, 117 p.
- US Army Corps of Engineers, Hydrologic Engineering Center, (1991). "HEC-2, Water Surface Profiles User's Manual," Davis, CA.
- U.S. Army Corps of Engineers, (1996a). "Risk-Based Analysis for Flood Damage Reduction Studies," U.S. Army Corps of Engineers Engineer Manual EM 1110-2-1619, 62 p.
- U.S. Army Corps of Engineers, (1996b). "Planning Risk-Based Analysis for Evaluation of Hydrology/Hydraulics, Geotechnical, Stability, and Economics in Flood Damage Reduction Studies," <u>U.S. Army Corps of Engineers Engineer Regulation ER 1105-2-101</u>, 1 March 1996, 12 p.
- U.S. Army <u>Corps of Engineers, (1998). "HEC-FDA Flood Damage Reduction Analysis User's Manual," U.S. Army Corps of Engineers, Hydrologic Engineering Center, Document CPD-72,</u>
- US Army Corps of Engineers, Hydrologic Engineering Center, (2001). "HEC-RAS River Analysis System, Hydraulic Reference Manual," <u>Computer Program Ducumentation CPD-69</u>, Davis, CA., 262 p.
- Venetis, C., (1970). "A Note on the Estimation of the Parameters in Logarithmic Stage-Discharge Relationships with Estimates of their Error," <u>Bulletin of the International Association of Scientific Hydrology</u>, International Union of Geodesy and Geophysics, XV(2):105-111
- Von Seggern, M.E., (1950)., "Integrating the Equation of Nonuniform Flow," <u>Transactions</u>, American Society of Civil Engineers, 115:71-88
- Weiya, G., Xueqi, L., and Peiwen, T., (1982), "The Method for Uniformizing the Stage-Discharge Relations of Stable River Beds and its Application, " Advances in Hydrometry (Proceedings of the Exeter Symposium, July, 1982), ed. by. J.A. Cole, IAHS Pub;., no. 134, pp. 49-61
- Westphal, J. A. Thompson, D. B. Stevens, G. T., Strauser, C.N., Jr., (1999). "Stage-discharge Relations on the Middle Mississippi River," <u>Journal of Water Resources Planning & Management</u>, American Society of Civil Engineers, 125(1):48-53
- Wiggins, W.C., (1925). "Correcting Discharge Measurements for Changing Stage," <u>Water Resources Branch, Circular No. 479</u>, unpublished manuscript of the Water-Resources Branch of the U.S. Geological Survey, 10 p.

- Wilson, C.A.M.E., and Sellin, R. H. J., (1999). "A Field Investigation of Vegetation Effects in a Doubly Meandering Compound Channel," <u>Proceedings</u>, 28th IAHR Congress, Graz, Austria, CD-ROM.
- World Meteorological Organization, (1980). "Manual on Stream Gaging, Volume II: Computation of Discharge," Operational Hydrology Report No. 13, WMO No. 519, Secretariat of the World Meteorological Organization, 258 p.
- Xia, R., (1992). <u>Sensitivity of Flood-Routing Models to Variations of Mementum Equation</u>
 <u>Coefficients and Terms</u>, Ph.D. Thesis, Department of Civil Engineering, University of Illinois, 376 p.
- Yen, B.C., (1965). <u>Characteristics of Subcritical Flow in a Meandering Channel</u>, Institute of Hydraulic Research, The University of Iowa, Iowa City, IA, 150 p.
- Yen, B.C., (1973). "Open-Channel Flow Equations Revisited," <u>Journal of the Engineering Mechanics</u>
 <u>Division</u>, American Society of Civil Engineers, 99(EM):979-1009
- Yen, B.C., (1979). "Unsteady Flow Mathematical Modeling Techniques," Chapter 13 of <u>Modeling of Rivers</u>, ed. by H.W. Shen, Wiley-Interscience, New York, pp. 13.1-13.33
- Yen, B.C., (1986). "Hydraulics of Sewers," in <u>Advances in Hydrosciences Vol. 14</u>, ed. By B.C. Yen, Academic Press, pp. 1-122
- Yen, B.C., (1987). "Urban Drainage Hydraulics and Hydrology: From Art to Science," <u>Urban Drainage Hydraulics and Hydrology</u>, ed. By B.C. Yen, 4th International Conference on Urban Storm Drainage and IAHR XXII Congress, Water Resources Publications, pp. 1-24
- Yen, B.C., (1992). "Hydraulic Resistance in Open Channels," in <u>Channel Flow Resistance:</u>
 <u>Centennial of Manning's Formula</u>, edited by B.C. Yen, Water Resources Publications, pp. 1-135
- Yen, B.C., Cheng, S.T., and Melching, C.S., (1986). "First-Order Reliability Analysis," in: Stochastic and Risk Analysis in Hydraulic Engineering, ed. By B.C. Yen, Water Resources Publications, Littleton, CO, pp. 1-36
- Yen, B.C., and Gonzalez, J.A., (1994). <u>Determination of Boneyard Creek Flow Capacity by</u>
 <u>Hydraulic Performance Graph</u>, Research Report No. 219, Department of Civil Engineering,
 Univ. of Illinois at Urbana-Champaign
- Yen, B.C., and Gonzalez, J.A., (1995). <u>Bottleneck Analysis and Channel Capacity Improvement Alternatives for UIUC Campus Portion of Boneyard Creek</u>, Report No. 46, Hydraulic Engineering Series, Department of Civil Engineering, Univ. of Illinois at Urbana-Champaign, 83 p.
- Yen, B.C., and Gonzalez-Castro, J.A., (2000). "Open-Channel Capacity Determination Using Hydraulic Performance Graph," <u>Journal of Hydraulic Engineering</u>, American Society of Civil Engineers, 126(2):112-122

- Yen, B.C., and Tang, W.H., (1977). "Reliability of Flood Warning," in: <u>Stochastic Processes in Water Resources Engineering</u> (Proceedings of the 2nd International Symposium on Stochastic Hydraulics, Lund, Sweeden, 1976), Water Resources Publications, Littleton, CO, pp. 333-347
- Yen, B.C., and Tung, Y.K., (1993). "Some Recent Progress in Reliability Analysis for Hydraulic Designs,"in: <u>Reliability and Uncertainty Analyses in Hydraulic Design</u>, ed. By B.C. Yen and Y. K. Tung, American Society of Civil Engineers, pp. 35-79
- Yen, B.C., Wenzel, H.G., Jr., Mays, L.W., and Tang, W.H., (1976), <u>Advanced Methodologies for the Design of Storm-Sewer Systems</u>, Research Report No. 112, Water Resources Center, University of Illinois at Urbana-Champaign, 224 p.
- Yen, B.C., and Yen, C.-L., (1971)., "Water Surface Configuration in Channel Bends," <u>Journal of the Hydraulics Division</u>, American Society of Civil Engineers, 97(HY2):303-321
- Yen, B.C., Yen, C.-L., and Tseng, M.-H., (1992), "Stochastic Perspective of Open Channel Equations," <u>Proceedings of the Sixth IAHR International Symposium on Stochastic Hydraulics</u>, Taipei, pp. 401-407